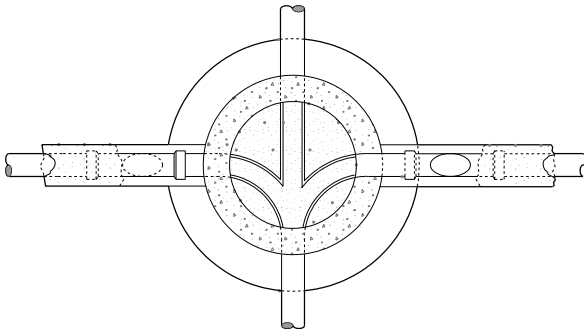


- NOTES:
1. FURNISH AS SHOWN ON PLANS AND/OR AT EACH MANHOLE WHERE SEWER LINE CROSSES OPEN FIELDS
 2. SIGNS TO BE CONSTRUCTED FROM 20 GA. STEEL BAKED ON ENAMEL FINISH. FURNISH ONE SIGN AND ONE POST FOR EACH MANHOLE INSTALLED ACROSS OPEN FIELD AND AT OTHER LOCATIONS AS SHOWN ON PLANS. FURNISH SAME NUMBER OF REPLACEMENT SIGNS AS FOR EACH INSTALLED (OMITTING MANHOLE NUMBER ON MANHOLE SIGN) (NOT A SEPARATE PAY ITEM)
 - 2" BLACK PRESSURE SENSITIVE NUMBERS TO BE ADDED AFTER BASIC SIGN HAS BEEN PAINTED.

SEWER WARNING AND MANHOLE IDENTIFICATION SIGN

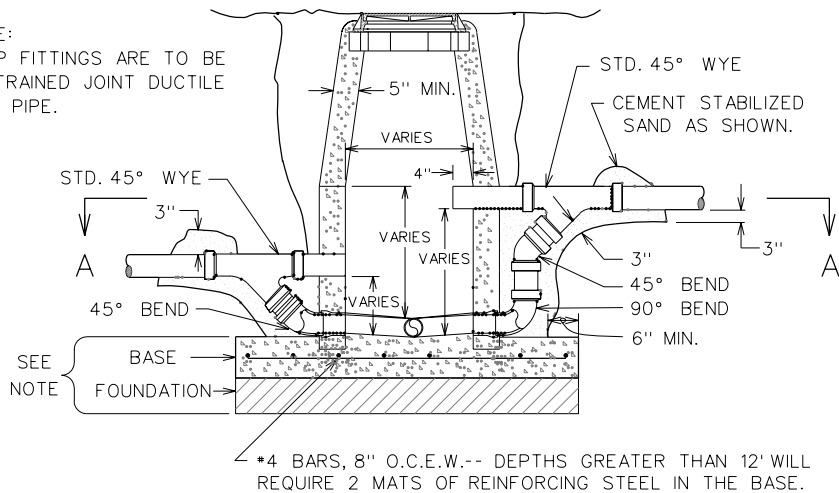
S1-01

NOTE:
MANHOLE BASE SHALL BE PLACED ON FIRM SUBGRADE.
ADDITION OF CEMENT STABILIZED SAND OR GRAVEL
MAY BE REQUIRED TO STABILIZE FOUNDATION.



SECTION A - A

NOTE:
DROP FITTINGS ARE TO BE
RESTRAINED JOINT DUCTILE
IRON PIPE.



STANDARD DROP MANHOLE

NOTE: CAP CLEAN-OUT AT BLIND FLANGE ON
RESTRAINED JOINT FOR FORCE MAINS.

S1-02

- NOTES:
1. A MAX. OF 4 AND A MIN. OF 2 THROAT RINGS SHALL BE USED AT EACH MANHOLE IN NEW OR EXISTING RIGHT-OF-WAY.
 2. USE ADEKA SEALANT OR APPROVED EQUAL BETWEEN RING/COVER, ADJUSTMENT RINGS AND CHIMNEY OR CORBEL/CONE SECTION.
 3. MANHOLE BASE THICKNESS AND FOUNDATION AS FOLLOWS:
MANHOLE DEPTH (FT.) BASE THICKNESS
0 - 12 8"
12 AND OVER 12"
 4. MANHOLE LOCATION AND COMPACTION AS FOLLOWS:
LOCATION COMPACTION REQUIREMENT
PAVEMENT 98 % STANDARD PROCTOR - ASTM D 698
LANDSCAPE AREA 90 % STANDARD PROCTOR - ASTM D 698
 5. NO RINGS ARE REQUIRED OUTSIDE OF STREET RIGHT-OF-WAY
 6. IN FLOODPLAINS, THE CONE SHALL EXTEND ABOVE THE BASE FLOOD ELEVATION OR A BOLT DOWN WATER-TIGHT RING AND COVER SHALL BE USED.
 7. WARNING SIGN ONLY TO BE PLACED WHERE SEWER CROSSES OPEN FIELDS.

STD. CAST IRON MANHOLE COVER
AND FRAME (30" DIA. OPENING)
OR EQUAL

PRECAST REINFORCED
CONC. MANHOLE SECT.
ASTM DES. C-478

BACK FILL AROUND MH SHALL
BE AS PER NOTE 4.

MANHOLE DIA.	MAIN SIZE
4 FT	<18in.
5 FT	≥18in. <30in.
6 FT	≥36in.

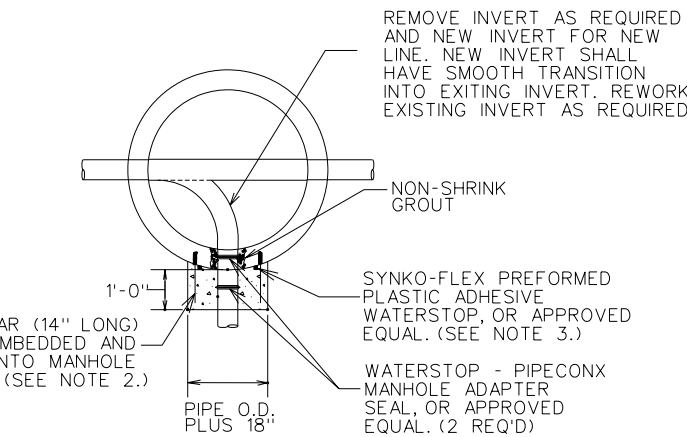
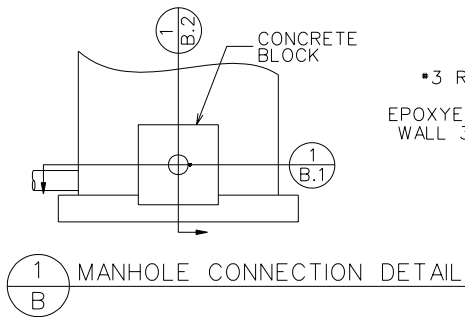
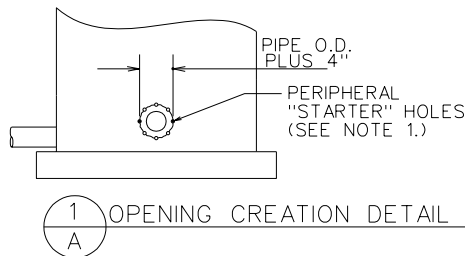
* INVERT = 3/4 DIAMETER OF PIPE
UP TO 24". 24" AND LARGER
SHALL BE FULL DEPTH INVERTS.

STANDARD MANHOLE

S1-03

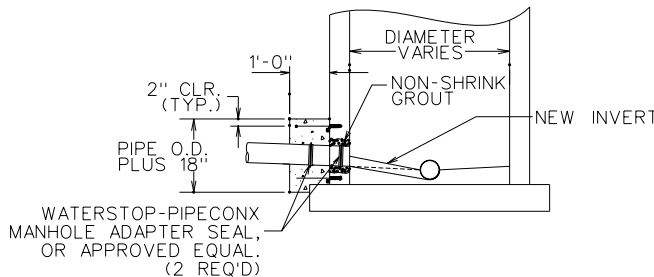
NOTES:

1. 1"Ø "STARTER" HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE. HOLES SHALL NOT BE INSTALLED MORE THAN 4" APART. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
2. THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" CC.
3. WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
4. CONCRETE SHALL BE 3,000 P.S.I.



1 CONNECTION DETAIL SECTION VIEW

STANDARD MANHOLE TIE-IN



1 CONNECTION DETAIL SECTION VIEW

S1-04

REVISIONS:
REVISED 12-8-03
REVISED 1-14-04
REVISED 1-23-04
REVISED 1-28-04

BRYAN - COLLEGE STATION
STANDARD SEWER DETAILS



THE CITY OF
BRYAN
TEXAS

DRAWN BY: JKL
DATE: 01-31-03
SCALE: N.T.S.
APPROVED: W.P.K.

FIGURE:

S1

SHEET 1 OF 4